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spectra  
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NEWS 10 APR 28 IMSRESEARCH reloaded with enhancements  
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NEWS 12 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology  
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NEWS 13 JUN 06 EPFULL enhanced with 260,000 English abstracts  
NEWS 14 JUN 06 KOREAPAT updated with 41,000 documents  
NEWS 15 JUN 13 USPATFULL and USPAT2 updated with 11-character  
patent numbers for U.S. applications  
NEWS 16 JUN 19 CAS REGISTRY includes selected substances from  
web-based collections  
NEWS 17 JUN 25 CA/CAPLUS and USPAT databases updated with IPC  
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information from the epoline Register  
NEWS 24 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements  
NEWS 25 JUL 28 STN Viewer performance improved  
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NEWS 27 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts

page images from 1967-1998  
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NEWS 29 AUG 15 CAplus currency for Korean patents enhanced  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
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=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE COVERS 1907 - 15 Aug 2008 VOL 149 ISS 8  
FILE LAST UPDATED: 14 Aug 2008 (20080814/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> s us 206028754/pn

L1 0 US 206028754/PN  
(US206028754/PN)

=> s us 20060128754/pn  
L2 1 US 20060128754/PN  
(US20060128754/PN)

=> sel rn  
E1 THROUGH E64 ASSIGNED

=> file reg  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 5.29 5.50

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STRUCTURE FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8  
DICTIONARY FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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predicted properties as well as tags indicating availability of  
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L3 ANSWER 4 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STM

RE 63762-88-3 REGISTRY

ED Entered STM: 23 Jun 2004

CH Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[2,3,5]-trimethyl-2-[[[1,2R)-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methyl-4-[2-propenyl-yloxy]-2-propenyl-yl ester, (4S,7R)- (CA INDEX NAME)

ORIG CA INDEX NAME:

CH Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[2,3,5]-trimethyl-2-[[[1,2R)-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methyl-4-[2-propenyl-yloxy]-2-propenyl ester, (4S,7R)- (9C1)

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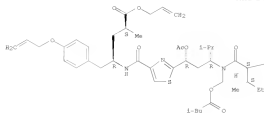
MF C45 N7 R5 OLD S

SA CA

LC STM Files: CA, CAPLUS, CASREACT, TOXCENTER, USPFULL

Absolute stereochemistry.

PAGE 1-A



L3 ANSWER 4 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STM (Continued)

PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STM

RE 63762-87-1 REGISTRY

ED Entered STM: 23 Jun 2004

CH Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[2,3,5]-trimethyl-2-[[[1,2R)-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methyl-4-methyl-2-ethyl-yl ester, (4S,7R)- (CA INDEX NAME)

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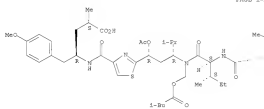
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SA CA

LC STM Files: CA, CAPLUS, CASREACT, TOXCENTER, USPFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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L3 ANSWER 6 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STM

RE 63762-79-1 REGISTRY

ED Entered STM: 23 Jun 2004

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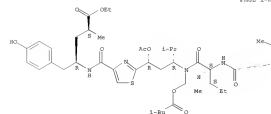
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SA CA

LC STM Files: CA, CAPLUS, CASREACT, TOXCENTER, USPFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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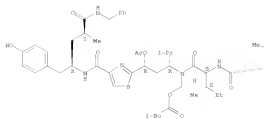
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L3 ANSWER 10 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
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 ED Entered STN: 23 Jun 2004  
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 OTHER NAMES:  
 CH Tadalafil A benzylamide  
 FS STEREOSOURCE  
 MF C16 H22 N6 O5 S  
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 Absolute stereochemistry. Rotation (+).

PAGE 1-A

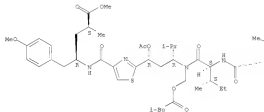


PAGE 1-B



L3 ANSWER 11 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RI 637226-88-7 REGISTRY  
 ED Entered STN: 23 Jun 2004  
 CI Benzoic acid, 4-hydroxy-3-[[[(2S,3S)-3-methyl-2-[[[(1R,2S)-3-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methoxy-8-methyl-, methyl ester, (aR,yR)- (CA INDEX NAME)  
 OTHER NAMES:  
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 FS STEREOSOURCE  
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 Absolute stereochemistry.

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PAGE 1-B

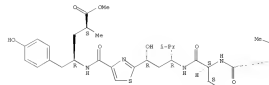


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L3 ANSWER 10 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Cont.)  
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RI 637226-87-4 REGISTRY  
 ED Entered STN: 23 Jun 2004  
 CI Benzoic acid, 4-hydroxy-3-[[[(2S,3S)-3-methyl-2-[[[(1R,2S)-3-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-8-methyl-, methyl ester, (aR,yR)- (CA INDEX NAME)  
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 Absolute stereochemistry.

PAGE 1-A

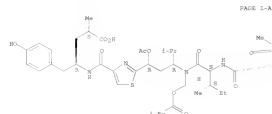


PAGE 1-B



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L3 ANSWER 13 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
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 ED Entered STN: 22 Jun 2004  
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 SA CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL  
 Absolute stereochemistry.

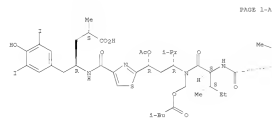


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
 RI 697236-84-3 REGISTRY  
 ED Entered STN: 22 Jun 2004  
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 Absolute stereochemistry.

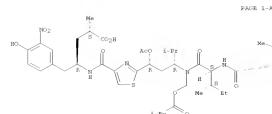


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 Absolute stereochemistry.

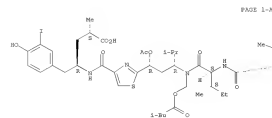


PAGE 1-B



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 ED Entered STN: 22 Jun 2004  
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 Absolute stereochemistry.



PAGE 1-B



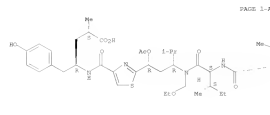
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LN  097236-82-1  REGISTRY
ED  Entered STN: 22 Jun 2004
CN  Benzeneperanoic acid, y-[1-[2-(1R,3R)-1-(acetoxy)-3-
    [2-ethoxyethyl]-1,4R,3R-3-methyl-2-[(1R)-1-methyl-2-
    (peridanyl)carboxy]amino]-1-enopyl]amino]-4-methyl-
    1-[(1R)-1-ethoxyethyl]amino]-4-hydroxy-n-methyl-, (S,S,YH)
    (CA INDEX NAME)
FS  STEREOISOMERISM
MR  CAG R01 N5 O5 S
SD  CA
LC  STN Files: CA, CAPLUS, CASREACT, TOXICENTER, USP4FULL

Absolute stereochemistry:

```

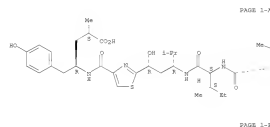


```

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAMS08 (1907 TO DATE)

```

```
LJ  ASHWEZ 19 CF      REGISTRY COPYRIGHT 2008 ACS on STN
FH  697236-8Q-9     REGISTRY
ED  Entered STN: 22 Jun 2004
CN
Benzenehexanoic acid; 4-hydroxy-y-[[(2-{[1R,3R]-1-hydroxy-4-methyl-
5-(hydroxymethyl)-2-penten-1-yl}oxy)ethoxy]methyl]carbamoyl-amino]-o-
cropanyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-o-methyl-,
(±),yH)- [CA INDEX NAME]
FS STRSEARCH
MT CDS R33 R57 S
SR CA
LC LTN Files: CA, CARLUS, CASREACT, TOCINTER, USPATFULL
Absolute stereochemistry. Notation (-).
```



```

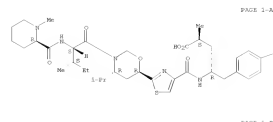
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAUSUS (1907 TO DATE)

```

```

LN  ANMESE 15 OF 64  REGISTRY  COPYRIGHT 2000  ACS  ON  SYN
LN  697216-01-0  REGISTRY
ED  Entered SYN: 22 Jun 2004
CN  Benzenesulfonic acid, 4-hydroxy-n-methyl-p-[[1,2-[[4,6],4',6'-bis(hydroxy-4-[[1-methyl-1-p-[[2,5,3,6-tetramethyl-2-piperidinyl]carbonyl]amino]-3-oxopentyl)]-2H,3',6'-oxazin-6-yl]]-4-thiazolyl]carbonyl]amino), (aS,yb)- (CA INDEX NAME)
FS  STEREOBOND
MF  C26 H33 N5 O7 S
SR  CA
LN  SYN Files: CA, CAPLOS, CASRAC, TOXINTER, USPATFULL
Absolute stereochemistry:

```



```

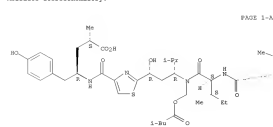
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLOS (1967 TO DATE)

```

```

LN  ANMER 20 OF 8  REGISTRY COPYRIGHT 2008 ACS ON SYN
LN  67236-78-5  REGISTRY
ED  Entered SYN: 22 Jun 2008
CM  Benzeneperiminoic acid, 4-hydroxy-γ-[12-((1R,3R)-1-hydroxy-4-methyl-
   3,3,12,12,3-pentamethyl-2-[(11Z)-1-methyl-2-oxopiperidin-1-yl]amino)-1-
   naphthyl]-3-methyl-1-oxobutanoic acid, the thiolamino perimyl-4-
   thiolamyl-[3-methylamino]-α-methyl-, (αS, αS) - (CA INDEX
   NAME)
SR  STEREOSEARCH
MF  C41 H63 N5 O5 S
PS  CA
LC  SYN Files:  CA, CARULS, TOXICATES, USP/FPAT
Absolute stereochemistry.

```



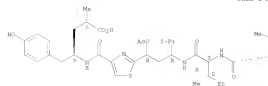
Chemical structure of 1,2-dichlorocyclohexane, showing a cyclohexane ring with two chlorine atoms attached to adjacent carbons.

12/07/2008

10-535,630.trn

L3 ANSWER 21 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RD Entered STN: 22 Jun 2004  
 RI 697216-77-4 REGISTRY  
 CN Benzeneperantoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[12S,15]-3-methyl-2-[[[12R]-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]amino]pentyl]-4-(thiazolyl)oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (aS,yb)- (CA INDEX NAME)  
 FS STEREOCHEM  
 MF C17 H25 N5 O8 S  
 SA CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).



PAGE 1-A

PAGE 1-B

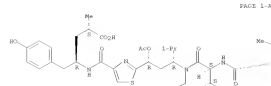


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RD Entered STN: 22 Jun 2004  
 RI 697216-76-3 REGISTRY  
 CN Benzeneperantoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-3-[[[12S,15]-3-methyl-2-[[[12R]-3-methyl-2-[[[12R]-3-methyl-1-2-piperidyl]oxycarbonyl]amino]-4-thiazolyl]oxycarbonyl]amino]-4-methyl]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (aS,yb)- (CA INDEX NAME)  
 FS STEREOCHEM  
 MF C28 H37 N5 O9 S  
 SA CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).



PAGE 1-A

PAGE 1-B

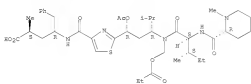


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RD 268782-47-1 REGISTRY  
 RI Entered STN: 15 Nov 2001  
 CN Benzeneperantoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[12S,15]-3-methyl-2-[[[12R]-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]amino]pentyl]-4-(thiazolyl)oxycarbonyl]amino]-4-methyl-, (aS,yb)- (CA INDEX NAME)  
 FS STEREOCHEM  
 MF C41 H51 N5 O9 S  
 SA CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

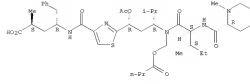


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RD 268783-58-8 REGISTRY  
 RI Entered STN: 20 Dec 2000  
 CN Benzeneperantoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[12S,15]-3-methyl-2-[[[12R]-1-methyl-2-piperidyl]oxycarbonyl]amino]-4-oxopentyl]amino]pentyl]-4-(thiazolyl)oxycarbonyl]amino]-4-methyl-, (aS,yb)- (CA INDEX NAME)  
 FS STEREOCHEM  
 MF C42 H53 N5 O9 S  
 SA CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

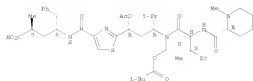
7 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

12/07/2008

10-535,630.trn

L3 ANSWER 25 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RI 205315-57-7 REGISTRY  
 ED Entered STN: 20 Dec 2005  
 CN Benzenehexanoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetoxyl)-4-methyl-3-[[[2,3,5]-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][3-methyl-1-oxobutoxymethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-methyl-, (aS,yR)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1-(Tubulysin B  
 CN Tubulysin B  
 PS STEREOSEARCH  
 MF C41 H53 N5 O9 S  
 SA CA  
 LC STN Files: NIOSIS, CA, CAPLUS, CASNAME, TOXNET, USFATFULL

Absolute stereochemistry. Rotation (+).



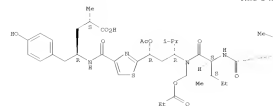
\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RI 205304-88-7 REGISTRY  
 ED Entered STN: 10 May 1998  
 CN Benzenehexanoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetoxyl)-4-methyl-3-[[[2,3,5]-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][3-methyl-1-oxobutoxymethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-6-hydroxy-methyl-, (aS,yR)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tubulysin C  
 PS STEREOSEARCH  
 MF C41 H41 N5 O10 S  
 SA CA  
 LC STN Files: CA, CAPLUS, TOXNET, USFATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

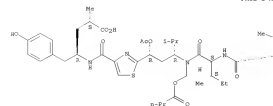
5 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L3 ANSWER 26 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)  
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RI 205304-87-4 REGISTRY  
 ED Entered STN: 10 May 1998  
 CN Benzenehexanoic acid,  $\gamma$ -[[[2-[(1R,2R)-1-(acetoxyl)-4-methyl-3-[[[2,3,5]-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][3-methyl-1-oxobutoxymethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-methyl-, (aS,yR)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tubulysin B  
 PS STEREOSEARCH  
 MF C42 H53 N5 O10 S  
 SA CA  
 LC STN Files: CA, CAPLUS, TOXNET, USFATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

12/07/2008

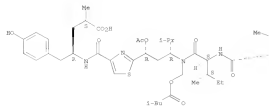
10-535,630.trn

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L1 ANIMER 28 OF 64  REGISTRY  COPYRIGHT 2005 ACS on STN
L2 04304-06-5  REGISTRY
L3 Entered STN: 10 May 1998
C1 Benzopentamethanoic acid, 9-[[12-[(1R,2R,3R,4R)-4-methyl-3-
  [[12R,3R,4R,5R)-2-methyl-2-[[12R,3R,4R,5R)-2-piperidinyl]oxarbonyl]amino]-1-
  oxo-2-oxopropyl]-10-methyl-2-oxododecyl]amino]-1-methyl-1-
  thiazolyl]piperidinyl]amino]-4-hydroxy-4-methyl-, (8S,9S)-
  C2 INDEX NAME
OTHER NAMES:
C3 Thiolipin A
C4 PE
MF C41 H64 O5 O5 S
SA CA
L4 STN FILES: BIOSIS, CA, CAPLUS, CARMACHT, TOXNETSER, USPFULL
Absolute stereochemistry.

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PAGE 1-A



PAGE 2-2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

15 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

```

LN  ANSWEZ 29-04 64 REGISTRY COPYRIGHT 2008 ACS on STN
LN  134637-72 64 REGISTRY
LN  Entered STN: 16 Nov 1990
LN  C# Pyridinium 2,3,4,5,6-pentachloro-pyridinium, salt with
LN  trifluoromethanesulfonic acid (1:1) (9C3) (CA INDEX NAME)
LN  C# CA INDEX NAME:
LN  C# Methanesulfonic acid, trifluoro, add(1-), 2,3,4,5,6-pentachloro-1-
LN  fluoropyridinium
LN  C# CA INDEX NAME:
LN  C# 2-Fluoro-2,3,4,5,6-pentachloropyridinium triflate
LN  C# 3-Fluoro-2,3,4,5,6-pentachloropyridinium triflate
LN  C# 4-Fluoro-2,3,4,5,6-pentachloropyridinium triflate
LN  MF C5 Cl5 F N . C 3 0 5
LN  SS
LN  LC STN Files: BELSTEIN*, CA, CAPUS, CASREACT, CHEMINFORMA, ZOTCENTER,
LN  ZOTCENTER
LN  (*file contains numerically searchable property data)

```

25

CNR 130433-69-1  
CNR C5 C15 F N



91 2

CNN 37181-39-8  
CME C. T. 03. 5.



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1.3 ANSWER 28 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)  
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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LN  ANMER 30 OF 64 REGISTRY COPYRIGHT 2000 ACS on STN
LN  134613-82-6 KEYSTRY
LN  Entered 23 May 1988
LN  1-Propanaminium,N,N,N-trisopropyl-, (7-4)-tetraoxaruthenate(1-) (1:1) (CA
LN  INDEX NAME)
LN  OTHER CA INDEX NAMES:
LN  1-Propanaminium,N,N,N-trisopropyl-, (7-4)-tetraoxaruthenate(1-) (PC1)
LN  Ruthenate (Ro4-1), (7-4)-N,N,N-trisopropyl-1-propanaminium (PC2)
LN  OTHER NAMES:
LN  Tetra-s-propylaminium peruruthenate
LN  Tetrapropylaminium peruruthenate
LN  Tetrapropylaminium perchuthenate(1-)
LN  Tetrapropylaminium tetraoxoruthenate
LN  Tetrapropylaminium tetraoxoruthenate(1-)
LN  C13 H25 N+ O4
LN  MW
LN  CAS Client Sites:
LN  STN 134613-82-6 CA, CAPLIS, CASBACK, CHEMISTS, CINDINFOKNA,
LN  CINCINT, CINCMA, MEDLINE, TOXNET, URBAN, USPATOLL

```

92 2

CEN 14333-21-2  
CMF O4 Ru  
CCZ CC6



9 2

CEN 13010-31-6  
CME C32 R30 H



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

166 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
166 REFERENCES IN FILE CAPLANS (1907 TO DATE)

[illegible]

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

620 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
631 REFERENCES IN FILE CARLOS (1907 TO DATE)

```

LN  ANMER 32 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STM
RD  2412-11-97 R. HOFFER
ED  Entered STM: 16 Nov 1984
CH  Pyridine, compd, w/ sulfur trioxide (1:1) (CA INDEX NOS)
OTHER CA INDEX NOS:
CH  Pyridine, compd, w/ SO3 (ACI, YCI)
CH  Sulfur trioxide, compd, w/ pyridine (1:1) (SCI)
OTHER NOS:
CH  DEC 75022
CH  Pyridine-sulfur trioxide
CH  Pyridine-sulfur trioxide (1:1)
CH  Pyridine-sulfur trioxide complex
CH  Pyridine-sulfur trioxide complex (1:1)
CH  Sulfur trioxide-pyridine
RW  CS HS W 0 0
LN  STM FILE: AGRICOLA, REISZSTEIN, MOROS, CA, CALLO, CARRASCO, CASARETO,
CERRATO, CHIRIVIGNA, CHELSTNIK, COHEN, GOLLUB, HENRIK, MISE-GO, SPACHING,
GILBERT, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ, KATZ,
(*File name numerically searchable property data)
Other Source EMBASE*, BIOSIS*, ESCAPE*
(*Enter CESLIST file for up-to-date regulatory information)

CN 1
RD  7446-11-97
END_C

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CH	2
CHN	110-86-
CHP	C5 H5 N



207 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
207 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

[illegible]

HC1

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2140 REFERENCES IN FILE CA (1907 TO DATE)  
82 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2150 REFERENCES IN FILE CAMLUS (1907 TO DATE)

[illegible]

● 重点

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1040 REFERENCES IN FILE CA (1907 TO DATE)  
 0 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1052 REFERENCES IN FILE CA108 (1907 TO DATE)



12/07/2008

10-535,630.trn

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L1  NUMBER 35 OF 4 REGISTRY COPYRIGHT 2008 ACS on STM
L2  AN0012-13-42-11
L3  Received 2701, 16 May 1984
C1  Silver oxide (Ag2O) [CA INDEX NAME]
C2EA NAME:
C3  Argentous oxide
C4  Silver(II) monoxide
C5  Silver(II) oxide
C6  Silver monoxide
C7  Silver(II) oxide
C8  Silver(II) oxide
C9  Silver(II) oxide
C10  Ag2O-4
C11  Ag2O
C12  O=O
C13  O=O
C14  O=O
C15  O=O
C16  O=O
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C458  O=
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$$\text{Ag} \rightleftharpoons \text{Ag}^+$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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7045 REFERENCES IN FILE CA (1907 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7076 REFERENCES IN FILE CAPLOS (1907 TO DATE)
13 REFERENCES IN FILE CAROLD (PRIOR TO 1967)

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[illegible]

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2653 REFERENCES IN FILE CA (1907 TO DATE)  
54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2656 REFERENCES IN FILE CARLOS (1907 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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LN  90518 76 OF 81  REGISTRY  COPYRIGHT 2008 ACS on STN
LN  92157-79-0  REGISTRY
EN  Entered STN: 16 Nov 1984
CN  Esterase (CA INDEX NAME)

OTHER NAMES:
CN  Ester Hydrolase
CN  Esterase ES46.5K
CN  Nonspecific esterase
CN  Tc4pyr FK 3
DE  92157-79-2
MF  Unspecified
CI  COM, NASH
LC  STN 10000  ADRENALS, AGRICULT, ANAESTH, BIOGESS, BIOCHEM, CA, CARLIS,
      CARNATE, CERN, CH, CINEMA, CERN, EMBASE, EINFIS, IFIPAT, IFIPAT, IPA,
      MELLINE, MORALET, PITA, PEGY, TOXICATES, ULICAT, USPATO, USPATOUL, U

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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14015 REFERENCES IN FILE CA (1907 TO DATE)  
138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
14032 REFERENCES IN FILE CARLUS (1907 TO DATE)

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12 ANSWER 38 OF 44 REGISTRY COPYRIGHT 2008 ACS ON STM
13 7791 REGISTRY
14 Accured 2011 16 Nov 1984
15 Cn iodine chloride (Cl) (CA INDEX NAME)
16
17 TREE NAMES
18 Chlorine iodide
19 Chlorine iodide (Cl)
20 Chlorine monochloride
21 Iodine chloride
22 Iodine monochloride
23 Iodine (1) chlorine
24 Iodochlorine
25 Iodomonochloride
26 Iodomonochloride
27 Iodomonochloride
28 Wp's: chloride
29 Cl 1
30
31 COM
32
33 NAME: ANGIOLICA, BROSIS, CA, CAOLA, CAPUS, CASCIN, CEF,
34 CRESIN, CRESINOMONON, CRESIN, LIT, CRODIN, BITESSAN, DUBAS,
35 GELIN, HERS, IFUDIN, IFUDIN, IFUDIN, MESLIN, MESSI, MESSO-CH
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C1-I

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2303 REFERENCES IN FILE CA (1907 TO DATE)  
40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2305 REFERENCES IN FILE CARLOS (1907 TO DATE)  
27 REFERENCES IN FILE CARLOS (PRIOR TO 1907)

12/07/2008

10-535,630.trn

[illegible]

2482

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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162575 REFERENCES IN FILE CA (1967 TO DATE)
      2229 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
162885 REFERENCES IN FILE CAPLOS (1967 TO DATE)
      1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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1  XN  4812-01-01  OF  REGISTRY    COPYRIGHT 2008 ACS on STD  N
2  NM  7632-00-2  REGISTRY
3  LN  Encured STD  1994
4  CN  Nitrous acid, sodium salt: (1:1)  (CA INDEX NAME)
5  VERB  CA INDEX NAME
6  CN  Nitrous acid, sodium salt: (10:1)
7  OTHER NAMES:
8  CN  Acetic Acid
9  CN  E 250
10  CN  Acetic Acid
11  CN  Fumaric
12  CN  M 198
13  CN  Nitrous Acid Tests
14  CN  S05 40
15  CN  Sodium Nitrite
16  CN  Sodium Nitrate (NaNO3)
17  CN  Synat 204
18  CN  1521-32-4, 18497-43-6, 82390-40-1, 20883-11-3
19  MF  N 2 O 2 . Na
20  LN  1994
21  LC  STD  FILES:  ADRINONE, ANICOLINA, ANISONE, AZURE, BISOXI, CHLOROBENZO, CHL,
22  CN  CAN, CANOL, CASCAMET, CHIN, CHIMPACT, CHIMPROMINOL, CHIMPROMINOL, CHIMP,
23  CN  CHIMP, CHIMP, CHIMP, CHIMP, CHIMP, CHIMP, CHIMP, CHIMP, CHIMP, CHIMP,
24  CN  INCORPOR, INCORPORAT, GELMITE, HEPAT, IFFICE, INFUSE, INFUSE, IPAA,
25  CN  INCORPOR, INCORPOR, INCORPOR, INCORPOR, INCORPOR, INCORPOR, INCORPOR, INCORPOR,
26  CN  TOXICATED, WILIA, ULTIAN, UNAN, USAP, USAPAT, USAPAT, USAP
27  **File contents may not necessarily describe property data)
28  Other Sources: 1994, 1994A, 1994A
29  **Enter CHEMIST File for up-to-date regulatory information)

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0000 N—OH

● **FILE**

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14290 REFERENCES IN FILE CA (1907 TO DATE)  
89 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
14326 REFERENCES IN FILE CARLOS (1907 TO DATE)

[illegible]

HC1

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

113570 REFERENCES IN FILE CA (1907 TO DATE)  
696 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
113897 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
40 REFERENCES IN FILE CAGLD (PERIOD 1907 TO 1967)

```

LN ANMER 42 OF REGISTRY COPYRIGHT 2008 ACS on STM
LN 255-54-2 REGISTRY
LN Entered STM 16 Mar 1994
LN Iodine (CA INDEX NAME)
OTHER NAMES
LN Acetone
LN Benzotriazole D 90
LN Diatomic Iodine
LN DiIodine
LN Iodoal
LN Iodol D
LN Iodine (127I)
LN Iodine moniodide
LN Iodine crystals
LN Iodine molecule (I2)
LN Iodine sublimed
LN Iodan Supergrip
LN Iodolane
LN Molecular Iodine
LN NDC 42355
LN Topoline
LN 801-81-5, 801-85-9, 8031-47-8, 24503-90-0
LN I2
LN I
LN CSM
LN Iodine: ADIOLINGH, ADIOLINGH, AGRODOL, AGRODOL, AGROSE, BODIG,
LN BODIGEROL, CA, CABO, CARLOS, CASCABET, CHAM, CHENETS, CHENINGFORS,
LN CHENINGF, CHENAFRE, CHN, CHENCH, CHSN, DROU, BETHEIN, DRUGU, EDARNE,
LN EDARNE, ENCHOLITE, ENCHOPUT, ENCHOPUT, GELIUM, HOF,
LN IPIAT, IFIUM, IUP, MELINE, MECH, MIM-OM, NAPAULET, PABU, DANA,
LN FRONT, FRETCH, FORTNETER, FULS, GLIAT, HOS, HOSAT, USPATULU, YETU
LN Iodine contains numerically searchable property data)
LN Also known as: I2, EINEKST, TIOCA
LN Iodine CSM file for single-date regulatory information)

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1-1

\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*

61282 REFERENCES IN FILE CA (1907 TO DATE)  
39993 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
61361 REFERENCES IN FILE CARLOS (1907 TO DATE)

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ANAMEL 43 CF 64 REGISTRY COPYRIGHT 2009 ACS on STM
3P 7445-44-0 REGISTRY
3P Entered: 2709, 16 May 1984
3P Carlson (CA INDEX NAME)
(CHEM NAME)
CM 1561937
CM 207A
CM 207A (carbon)
CM 207B3
CM 207B3
CM 207B
CM 207B
CM 20K
CM 402K
CM 402K
CM 606K37
CM 714EL
CM AC 01
CM AC 02 (adsorbent)
CM AC 100
CM AC 100 (adsorbent)
CM AC 40
CM AC 40 (adsorbent)
CM AC7-N
CM Activcarbon 25X
CM Activcarbon E20
CM Activcarbon WF
CM Activtreat CS 1501
CM Activtreat SC 1501
CM Activtreat W6 3
CM Activated carbon
CM Activive carbon beads
CM Advanced Patterning Film
CM AG 1
CM AG 2 (catalyst support)
CM AG 4-4
CM AG 3
CM AG 3 (adsorbent)
CM AG 5
CM AG 5 (adsorbent)
CM AG 95
CM AG 95 (carbon)
CM AG-N
CM AG-N (carbon)
CM AG-OV 1
CM AGN 1
CM AGN 1 (carbon)
CM AGN 2
CM AGN 2 (carbon)
CM AGN 3
CM AGN 3
CM AGN 4
CM AGN 4 (adsorbent)
CM AK
CM AK (adsorbent)
CM Alfa Aesar 41774

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[illegible]

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

103910 REFERENCES IN FILE CA (1907 TO DATE)
  7607 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
104006 REFERENCES IN FILE CAMPUS (1907 TO DATE)

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[illegible]

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
379159 REFERENCES IN FILE CA (1907 TO DATE)
15361 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
379835 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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[illegible]

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      345658 REFERENCES IN FILE CA (1907 TO DATE)
      7894 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
      346105 REFERENCES IN FILE CA/LOS (1907 TO DATE)
      1 REFERENCES IN FILE CA/OLD (PRIOR TO 1967)

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12/07/2008

10-535,630.trn

[illegible] $\text{Na}^+ \text{OH}^-$ 

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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102404 REFERENCES IN FILE CA (1907 TO DATE)
      503 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
102767 REFERENCES IN FILE CAPLOS (1907 TO DATE)
      1 REFERENCES IN FILE CAPLOD (PRIOR TO 1947)

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[illegible]

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2643 REFERENCES IN FILE CA (1907 TO DATE)  
52 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2649 REFERENCES IN FILE CAPLOS (1907 TO DATE)  
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

[illegible]

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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4150 REFERENCES IN FILE CA (1907 TO DATE)
    104 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4187 REFERENCES IN FILE CAPLUS (1907 TO DATE)
    23 REFERENCES IN FILE CAPLD (PRIOR TO 1967)

```

```
NH ANMER 49 OF 64 REGISTRY COPYRIGHT © 2008 ACS ON STN RM  
47-347-1 REGISTRY  
Entered 22 Jun 1984  
CW Carbochloridic acid, 2-methylpropyl ester (CA INDEX NAME)  
CC CA INDEX NAME:  
CH Formic acid, chloro-, isobutyl ester (CCL, YCI, CRL)  
OTHER NAME(s):  
CS 2-Methylpropyl carbochloridate  
CT 2-Methylpropyl chloroformate  
CD Chlorocarbonic acid isobutyl ester  
CM Chloroformic acid isobutyl ester  
DGK  
CB Isobutoxyacetyl chloride  
CE Isobutyl carbonylchloride  
CF Isobutyl chloridoacetate  
CG Isobutyl chlorooxamate  
CHL Isobutyl chlorosuccinate  
CK Isobutyloxyisobutyl chloride  
NC 8429  
CS B9 CB CL OZ  
LC ITEMS: MISCOLA, BELISTINE*, EOSIS, SIETROMO, CA, KALLI, CALLOS,  
HYPERMAGNETIC CONDUCTIVITY, CHEMILIGHT, CHOCOLATE, CINNAMON, CMSC,  
EMBALE, GRELIN*, JIPROS, JIFPAT, IFAPA, IYA, MELLINE, NOX*, NEDS-CB,  
PUS, SIBAC, VITAMIN D3, VOLOMETAR, UPAPAT, USPAPAL, USPAUTOLD  
(*Other names numerically searchable property data)  
(*Contains: DELT*, EIMESH*, THAX*)  
(**)DELTA EXPEDIT FILE FOR write-data regulatory information)
```



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1770 REFERENCES IN FILE CA (1907 TO DATE)  
18 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1774 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
7 REFERENCES IN FILE CAGLD (PRIOR TO 1967)

12/07/2008

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[illegible]

### EXPERIMENT 1

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4606 REFERENCES IN FILE CA (1907 TO DATE)  
86 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
4607 REFERENCES IN FILE CAPLOS (1907 TO DATE)  
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 AMMER 51 OF 64 REGRISTRY COPYRIGHT 2000 ACS ON STD  
LN 128-08-5 REGISTRY  
ED Entered STD: 14 Nov 1998  
CH 2-5-Pyrrolidinone, 1-homo- (CA INDEX NAME)  
OTHER CA INDEX NAME:  
CI Succinimide, N-homo- (SCI)  
OTHER NAMES:  
CH 1-homo-2-pyrrolidinedione  
CI Bromosuccinamide  
CI Bromosuccinimide  
CH NE  
CI NE  
CI NE  
CI Succinobromalide  
DA 1943:7-5, 3493-39  
C4 M4 H4 CH4  
CI OX  
ST Files: AGLCOLA, ANAGOST, AQOIE, KILLIFESTR, PLOIS, BROTCHOC,  
CA, CALD, CARLE, CARMAT, CHS, CHEKETS, CHENHOFNUS, CHEMIST, CI  
CHELSE, DEHU, DETHM\*, DIPOZ, ENABAC, INCOGNITO, INCUNOLITO,  
ECONFATA,  
DEMCAPATE, OMELIN, IFIRIS, IPIAT, IPIUSE, LIA, NICKY, NOMB-OB,  
PROMT, PS, SPECIHO, TOCKETER, UPAST, USAPULU, USAPULU  
(\*file contains numerically searchable property data)  
Other Sources: EINECS, EINECS\*, CAS, CAS registry information

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5388 REFERENCES IN FILE CA (1967 TO DATE)  
62 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
5413 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



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13 128-91-1 CASISTRY COPYRIGHT 2008 ACS on STN
14 128-91-1 CASISTRY
15 ED Entered STN 15 Nov 1984
16 CH 1,4-Dioxane (TAX INDEX NAME)
17 OTHER CAS INDEX NAMES:
18   a-Dioxane (SCI)
19   CDS 1,4-Diethylene dioxide
20   1,4-Dioxacyclohexane
21   1,4-Dioxan
22   1,4-Dioxan, tetrahydro-
23   Diethylene oxide
24   Diethylene ether
25   Diethylene oxide
26   Dioxan
27   Dioxane
28   Dioxacyethylene ether
29   NSC 8710
30   NSC 8728
31   p-Dioxan
32   1844-114-5, 28347-88-8, 28347-91-3, 39469-24-6
33   CAS 98, 9725
34   CH STN Files: AMBICOLA, MANABTE, AGUIRE, BELLESTINE*, BROSSI, BROTCHER*

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BENZALDE, VIN, VIOGREN, VIOG, VIOGREN, VIOGREN, ENCOMPLIT, ENCOMPLIT2,
ENCOMPLAT, ENCOMPLAT2, OMELIN, HSDP, IFICID, IFIPAT, IFIVUD, IPA,
IMEDLINE, MACK, MACK-GRS, PISA, FRONT, KTEG, SCISEARCH, SPECINFO,
TOXCENTER, TULSA, ULINAT, USPAT2, USPATFULL
{File contains numerically searchable property data}
Her Sources: DEL, EINECS, TSCA
{**Enter CHEMLIST File for up-to-date regulatory information}

```



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19571 REFERENCES IN FILE CA (1907 TO DATE)  
419 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
19605 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
2 REFERENCES IN FILE CALD (PRIOR TO 1967)

[illegible]

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

26814 REFERENCES IN FILE CA (1907 TO DATE)  
1185 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
26869 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
3 REFERENCES IN FILE CAGLD (PRIOR TO 1967)

L3 ANSWER 14 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
 RE 110-96-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CH Pyridine (CA INDEX NAME)  
 OTHER NAMES:  
 CN Acridene  
 CN Azo  
 CN 50  
 CN NSC 141574  
 CN NSC 400112  
 DR 857961-06-3, 733733-47-6, 6999-00-4, 163392-20-9, 62301-32-0,  
 152728-40-7,  
 85404-19-9, 85404-20-2, 82005-06-9, 45410-39-7  
 MF C5 H5 N  
 CI COM, IEST  
 LC STN Files: AGRICOLA, ANABETS, AQUIRE, BELSTEIN, BIOSIS, BIOTECHECO,  
 CA, CAGL, CAPUS, CASABACT, CMBS, CHEMCAST, CHEMNOFORMA,  
 CHEMLIST, CHEMPAT, CHN, CINCHEM, CHN, DOPF, DETEMER, DECOU, EMBAEC,  
 ENCOMPAT, ENCOMPLIT, ENCOMPAT, ENCOMPAT, OMLIN, RSB\*, IFIPAT,  
 IFIPAT, IFIPUS, MEDLINE, MCK\*, MEDS-ORS, NAPALERT, PIRA, FRONT, PS,  
 RECS\*, SPECINFO, SYNTELING, TOXENTER, TOLSA, ULIDAT, USPAT2,  
 USPATOLL.  
 (\*File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5076 REFERENCES IN FILE CA (1907 TO DATE)  
 6372 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5044 REFERENCES IN FILE CAPUS (1907 TO DATE)  
 8 REFERENCES IN FILE CAGL (1907 TO DATE)

L3 ANSWER 16 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
 RE 104-24-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CH Acetic acid, 1,1'-anhydride (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Acetic acid, anhydride (9CI)  
 CN Acetic anhydride (10CI)  
 OTHER NAMES:  
 CN Acetic oxide  
 CN Acetyl acetate  
 CN Acetyl anhydride  
 CN Acetyl ether  
 CN Acetyl oxide  
 CN Ethanoic anhydride  
 MF C4 H6 O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABETS, AQUIRE, BELSTEIN, BIOSIS, BIOTECHECO,  
 CA,  
 CAGL, CAPUS, CASABACT, CMBS, CHEMCAST, CHEMNOFORMA, CHEMLIST,  
 CHEMPAT, CHN, CINCHEM, CHN, DETEMER, DECOU, ENCOMPAT, ENCOMPLIT,  
 ENCOMPAT, OMLIN, RSB\*, IFIPAT, IFIPAT, IFIPUS, IFA,  
 MEDLINE, MCK\*, MEDS-ORS, PIRA, FRONT, PS, RECS\*, SPECINFO, SYNTELING,  
 TOXENTER, TOLSA, ULIDAT, USPAT2, USPATOLL.  
 (\*File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Ac-C-Ac

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

20469 REFERENCES IN FILE CA (1907 TO DATE)  
 512 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 20724 REFERENCES IN FILE CAPUS (1907 TO DATE)  
 4 REFERENCES IN FILE CAGL (1907 TO DATE)

L3 ANSWER 15 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
 RE 109-99-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CH Butane, 1,4-epoxy- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Butane 4,6-oxide  
 CN Butane, 1,4-epoxy-  
 CN Cyclooctamethylene oxide  
 CN Paraffin  
 CN NSC 37858  
 CN Quacyclopentane  
 CN Oxolane  
 CN Tetrahydrofuran  
 CN Tetramethylene oxide  
 TSE  
 DR 7732-10-2  
 MF C4 H8 O  
 CI COM  
 LC STN Files: AGRICOLA, AGRICOLA, ANABETS, AQUIRE, BELSTEIN, BIOSIS,  
 BIOTECHECO, CA, CAGL, CAPUS, CASABACT, CMBS, CHEMCAST, CHEMNOFORMA,  
 CHEMLIST, CHEMPAT, CHN, CINCHEM, CHN, DOPF, DETEMER, DECOU, EMBAEC,  
 ENCOMPAT, ENCOMPLIT, ENCOMPAT, ENCOMPAT, OMLIN, RSB\*, IFIPAT,  
 IFIPAT, IFIPUS, IFA, MEDLINE, MCK\*, MEDS-ORS, NAPALERT, PIRA, FRONT,  
 RECS\*, SPECINFO, SYNTELING, TOXENTER, TOLSA, ULIDAT, USPAT2,  
 USPATOLL, VETO  
 (\*File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

23451 REFERENCES IN FILE CA (1907 TO DATE)  
 144 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 23513 REFERENCES IN FILE CAPUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAGL (1907 TO DATE)

L3 ANSWER 17 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN  
 RE 104-13-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CH Benzenesulfonic acid, 4-methyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN p-Toluenesulfonic acid (7CI, 8CI)  
 OTHER NAMES:  
 CN 4-Methylbenzenesulfonic acid  
 CN 4-Toluenesulfonic acid  
 CN Cat 51-53  
 CN Cycac 4040  
 CN Eyer 300  
 CN E-Cur 1040  
 CN EC 1040  
 CN Neurec 1040  
 CN NSC 16708  
 CN NSC 2147  
 CN p-Methylbenzenesulfonic acid  
 CN p-Methylphenylsulfonic acid  
 CN p-Toluenesulfonic acid  
 CN p-Tolylsulfonic acid  
 CN PFS 100  
 CN Teyatex 300  
 CN Toluenesulfonic acid  
 CN Toluic acid  
 CN TSA 95  
 DR 25331-46-3, 633005-68-3  
 DR 602-47-1, 128739-80-0, 126033-27-0, 114213-96-6, 81506-29-7, 156627-66-2,  
 14444-75-7, 100901-72-2, 185568-68-3, 210357-81-6, 227313-69-7,  
 369371-25-5, 613262-31-0  
 MF C7 H8 O3 S  
 CI COM  
 LC STN Files: AGRICOLA, ANABETS, AQUIRE, BELSTEIN, BIOSIS, BIOTECHECO,  
 CA,  
 CAGL, CAPUS, CASABACT, CMBS, CHEMCAST, CHEMNOFORMA, CHEMLIST, CHN,  
 CHEMPAT, CHN, DETEMER, EMBAEC, ENCOMPAT, ENCOMPLIT, ENCOMPAT,  
 ENCOMPAT, OMLIN, RSB\*, IFIPAT, IFIPAT, IFIPUS, IFA, MEDLINE,  
 MCK\*,  
 MEDS-ORS, PIRA, FRONT, PS, RECS\*, SPECINFO, TOXENTER, TOLSA, ULIDAT,  
 USPAT2, USPATOLL, USPATOLL  
 (\*File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13015 REFERENCES IN FILE CA (1907 TO DATE)  
 531 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 13058 REFERENCES IN FILE CAPUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAGL (1907 TO DATE)

12/07/2008

10-535,630.trn

L3 ANSWER 57 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L3 ANSWER 58 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RE 76-05-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetic acid; 2,2,2-trifluoro- (CA INDEX NAME)  
 OTHER CA INDEX NAME(S)  
 CN Acetic acid, trifluoro- (SCI, PCI)  
 OTHER NAME(S)  
 CN 2,2,2-Trifluoroacetic acid  
 CN NDC 77344  
 CN Perfluoroacetic acid  
 CN TFA  
 CN Trifluoroacetic acid  
 CN Trifluoroethanoic acid  
 MF C2 H3 O2  
 CI COM  
 LC STN Files: AGRICOLA, ANASTAS, AQUILA, BEILSTEIN, BIOSIS, BUTENBERG, CA, CAGLE, CAPUS, CHEMABT, CHEM, CHEMPAT, CHINCINNAM, CHEMLIST, CIN, COCHEN, CHSE, DFT, DETERNA, EPOVO, EMPARE, ENEMLIT, ENCMPLIT, ENCMOPAT, ENCMOPAT, ENCMPLIT, ENCLIN, ENCLIN, IFICIN, IFIAT, IFIUS, IPA, MEDLINE, MCKC, MEDS-ORG, PIRA, FRONT, FRONC, SPECINFO, SYNTHELINE, TOXCENT, ULIDAT, USPAT, USPATFILL  
 (File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*  
 (\*\*Enter CHEMLIST file for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10160 REFERENCES IN FILE CA (1907 TO DATE)  
 400 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 10191 REFERENCES IN FILE CAGLE (1907 TO DATE)  
 7 REFERENCES IN FILE CAGLE (PRIOR TO 1907)

L3 ANSWER 59 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RE 76-17-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Silane, chlorotrimethyl- (CA INDEX NAME)  
 OTHER NAME(S)  
 CN Chlorotrimethylsilane  
 CN KA 11  
 CN KA 11 (silane)  
 CN Monochlorotrimethylsilane  
 CN Monochlorotrimethylsilicon  
 CN NDC 15750  
 CN TMS  
 CN Trimethylchlorosilane  
 CN Trimethylsilane chloride  
 CN Trimethylsilicon chloride  
 CN Trimethylsilyl chloride  
 CN TMS 8031  
 RE 17192-16-2, 36640-33-8  
 MF C3 H9 Cl Si  
 CI COM  
 LC STN Files: AGRICOLA, ANASTAS, BEILSTEIN, BIOSIS, BUTENBERG, CA, CAGLE, CAPUS, CHEMABT, CHEM, CHEMPAT, CHINCINNAM, CHEMLIST, CIN, COCHEN, CHSE, DFT, DETERNA, EPOVO, EMPARE, ENEMLIT, ENCMPLIT, ENCMOPAT, ENCLIN, ENCLIN, IFICIN, IFIAT, IFIUS, IPA, MEDLINE, MCKC, MEDS-ORG, PIRA, FRONT, FRONC, SPECINFO, SYNTHELINE, TOXCENT, USPAT, USPATFILL, USPTO  
 (File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*  
 (\*\*Enter CHEMLIST file for up-to-date regulatory information)

MELTIN



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12148 REFERENCES IN FILE CA (1907 TO DATE)  
 718 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 12162 REFERENCES IN FILE CAPUS (1907 TO DATE)  
 346 REFERENCES IN FILE CAGLE (PRIOR TO 1907)

L3 ANSWER 60 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RE 76-09-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Methane, dichloro- (CA INDEX NAME)  
 OTHER NAME(S)  
 CN Acetone MM  
 CN Dichloromethane  
 CN F 30  
 CN F 30 (chloromethane)  
 CN Freon 30  
 CN R 30  
 CN R 30 (refrigerant)  
 CN Solanethin  
 CN Solanin VM  
 CN Solanethin  
 MF C H2 Cl2  
 CI COM  
 LC STN Files: AGRICOLA, ANASTAS, AQUILA, BEILSTEIN, BIOSIS, BUTENBERG, CA, CAGLE, CAPUS, CHEMABT, CHEM, CHEMPAT, CHINCINNAM, CHEMLIST, CHEMPAT, CIN, COCHEN, CHSE, DFT, DETERNA, EPOVO, EMPARE, ENEMLIT, ENCMPLIT, ENCMOPAT, ENCLIN, ENCLIN, IFICIN, IFIAT, IFIUS, IPA, MEDLINE, MCKC, MEDS-ORG, PIRA, FRONT, FRONC, SPECINFO, SYNTHELINE, TOXCENT, ULIDAT, USAN, USPAT, USPATFILL  
 (File contains numerically searchable property data)  
 Other Sources: BSL\*, EINECS\*, TSCA\*  
 (\*\*Enter CHEMLIST file for up-to-date regulatory information)

Cl-CH2-Cl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

32778 REFERENCES IN FILE CA (1907 TO DATE)  
 121 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2822 REFERENCES IN FILE CAGLE (1907 TO DATE)  
 7 REFERENCES IN FILE CAGLE (PRIOR TO 1907)





12/07/2008

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L3 ANSWER 44 OF 44 REGISTRY COPYRIGHT 2008 ACS on STM (Continued)

89C-CH2-OH

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

232114 REFERENCES IN FILE CA (1907 TO DATE)  
2191 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
214001 REFERENCES IN FILE CARLOS (1907 TO DATE)  
11 REFERENCES IN FILE CAGOLD (PRIOR TO 1947)

=&gt;

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US Eastern time:                    Sunday from 01:00 (1:00 AM) until  
                                        Saturday at 22:00 (10:00 PM)

On the first Saturday of each month, STN is available only until  
17:00 (5:00 PM).

Tokyo time:                         Sunday from 14:00 (2:00 PM) until  
                                        Sunday at 11:00 (11:00 AM)

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Additionally, representatives from the Help Desk and Customer Service  
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time, Monday through Friday, at the following telephone numbers:

Help Desk                    - (800) 848-6533   North America  
                              - (614) 447-3698   Elsewhere

Customer Service           - (800) 753-4227   North America  
                              - (614) 447-3731   Elsewhere

We can also be contacted via email at [HELP@CAS.ORG](mailto:HELP@CAS.ORG).

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US Eastern time:                    Sunday from 01:00 (1:00 AM) until  
   Saturday at 22:00 (10:00 PM)

On the first Saturday of each month, STN is available only until  
17:00 (5:00 PM).

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   Sunday at 11:00 (11:00 AM)

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available only until 06:00 (6:00 AM).

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may be reached from 08:00 (8:00 AM) to 20:00 (8:00 PM) US Eastern  
time, Monday through Friday, at the following telephone numbers:

Help Desk                    - (800) 848-6533   North America  
                                 - (614) 447-3698   Elsewhere

Customer Service           - (800) 753-4227   North America  
                                 - (614) 447-3731   Elsewhere

We can also be contacted via email at [HELP@CAS.ORG](mailto:HELP@CAS.ORG).

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LOGINID:ssptajem1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1                    Web Page for STN Seminar Schedule - N. America  
NEWS 2   AUG 15   CAOLD to be discontinued on December 31, 2008

NEWS 3 OCT 07 EPFULL enhanced with full implementation of EPC2000  
NEWS 4 OCT 07 Multiple databases enhanced for more flexible patent  
number searching  
NEWS 5 OCT 22 Current-awareness alert (SDI) setup and editing  
enhanced  
NEWS 6 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT  
Applications  
NEWS 7 OCT 24 CHEMLIST enhanced with intermediate list of  
pre-registered REACH substances  
NEWS 8 NOV 21 CAS patent coverage to include exemplified prophetic  
substances identified in English-, French-, German-,  
and Japanese-language basic patents from 2004-present  
NEWS 9 NOV 26 MARPAT enhanced with FSORT command  
NEWS 10 NOV 26 MEDLINE year-end processing temporarily halts  
availability of new fully-indexed citations  
NEWS 11 NOV 26 CHEMSAFE now available on STN Easy  
NEWS 12 NOV 26 Two new SET commands increase convenience of STN  
searching  
NEWS 13 DEC 01 ChemPort single article sales feature unavailable  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
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NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:52:23 ON 07 DEC 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:52:42 ON 07 DEC 2008  
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STRUCTURE FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

DICTIONARY FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

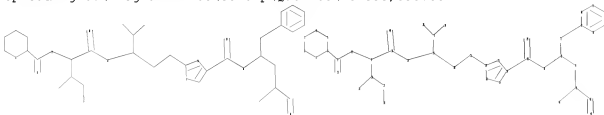
Please note that search-term pricing does apply when  
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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chain nodes :  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 27 28 29 30 31 32 39  
40 41 42 43 44  
ring nodes :  
1 2 3 4 5 6 22 23 24 25 26 33 34 35 36 37 38  
chain bonds :  
6-7 7-8 7-27 8-9 9-10 9-14 10-11 10-12 12-13 14-15 14-44 15-16 16-17  
16-20 17-18 17-19 20-21 21-22 24-28 28-29 28-30 30-31 31-32 31-39 32-33  
39-40 40-41 40-42 42-43  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 22-23 22-26 23-24 24-25 25-26 33-34 33-38  
34-35 35-36 36-37 37-38  
exact/norm bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-27 8-9 14-15 14-44 15-16 22-23 22-26  
23-24 24-25 25-26 28-29 28-30 30-31 42-43  
exact bonds :  
6-7 9-10 9-14 10-11 10-12 12-13 16-17 16-20 17-18 17-19 20-21 21-22  
24-28 31-32 31-39 32-33 39-40 40-41 40-42

12/07/2008

10-535,630.trn

normalized bonds :

33-34 33-38 34-35 35-36 36-37 37-38

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS  
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:Atom 34:Atom 35:Atom  
36:Atom 37:Atom 38:Atom 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS  
44:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:53:12 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 360 TO 1080

PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:53:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 753 TO ITERATE

100.0% PROCESSED 753 ITERATIONS

81 ANSWERS

SEARCH TIME: 00.00.01

L3 81 SEA SSS FUL L1

=> s l3

SAMPLE SEARCH INITIATED 14:53:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 360 TO 1080  
PROJECTED ANSWERS: 4 TO 200

L4 4 SEA SSS SAM L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.03

FILE 'CAPLUS' ENTERED AT 14:53:40 ON 07 DEC 2008

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FILE COVERS 1907 - 7 Dec 2008 VOL 149 ISS 24

FILE LAST UPDATED: 5 Dec 2008 (20081205/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3

L5 35 L3

=> s l3 and (py<2003 or ay<2003 or pry<2003)

35 L3

22961955 PY<2003

4500736 AY<2003

3969189 PRY<2003

L6 7 L3 AND (PY<2003 OR AY<2003 OR PRY<2003)

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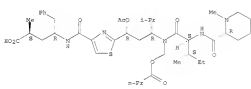
16 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 ACCESSION NUMBER: 2004-1009732 CAPLUS  
 14123740  
 DOCUMENT NUMBER:  
 TITLE: Agmatine-tosine nucleosides and methods for using same  
 INVENTOR(S): Stanton, Martiny Ruz, Mackay Wilson, Charles  
 PATENT ASSIGNEE(S):  
 U.S. Nat. Appl. Publ., 41 pp., Cont., In-part of U.S.  
 Ser. No. 6/005,057.  
 SOURCE: US 20040041901  
 COUNTRY: US  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNTRY: 11  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040249110	A1	2004-12-09	US 2004-828971	200404215
US 20040227127	A1	2004-05-05	US 2003-450007	20030618
AO 2004213248	A1	2004-11-04	AO 2004-232848	20040421
AO 2004213249	A1	2004-11-04		
CA 2521249	A1	2004-11-04	CA 2004-2521249	20040421
WO 2004294624	A2	2004-11-04	WO 2004-0931870	20040421
WO 2004294624	A1	2004-07-01		
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16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 ACCESSION NUMBER: 2004-1009732 CAPLUS  
 14123740  
 DOCUMENT NUMBER:  
 TITLE: Manufacturing processes for thubulyrin derivatives  
 INVENTOR(S): Benfies, Gerhard; Basse, Florenz  
 PATENT ASSIGNEE(S): Gesellschaft fuer Biotechnologische Forschung GmbH  
 (GBF), Germany  
 SOURCE: Ger. Offen., 54 pp.  
 COUNTRY: GERMANY  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNTRY: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004046170	A2	2004-06-03	WO 2003-EP11693	20031020
WO 2004046170	A3	2004-07-01		
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Absolute stereochemistry.



16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 ACCESSION NUMBER: 2004-1009732 CAPLUS  
 14123740  
 DOCUMENT NUMBER:  
 TITLE: Manufacturing processes for thubulyrin derivatives  
 INVENTOR(S): Benfies, Gerhard; Basse, Florenz  
 PATENT ASSIGNEE(S): Gesellschaft fuer Biotechnologische Forschung GmbH  
 (GBF), Germany  
 SOURCE: Ger. Offen., 54 pp.  
 COUNTRY: GERMANY  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNTRY: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004046170	A2	2004-06-03	WO 2003-EP11693	20031020
WO 2004046170	A3	2004-07-01		
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OTHER SOURCE(S): CASREACT 141:23746; MARIAT 141:23746  
 01

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AS The invention concerns a compound of the subsequent thubulyrin derivative formula 1 (R = H, Cl-4-alkyl, aryl, OR) R03R2,R08-(R02)-4, R = R,

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 C1-4-alkyl, aryl; R2 = R, C1-6-alkyl, aryl; S = R, halo, R02, NR3; U =  
 halo, R02, NR3; R3 = R, R03, C1-4-alkyl-CO<sub>2</sub>H; T = R, GR4; R4 = R,  
 C1-4-alkyl, aryl, COR5, R10(R06)2, R07(R6)5; R5 = C1-6-alkyl, alkyl, aryl,  
 heteroaryl; R6 = R, C1-6-alkyl, metal ion; V = R, R7, or (for W = O) O;  
 W = R, C1-4-alkyl, COR8; R8 = C1-4-alkyl, alkyl, aryl; X = H,  
 C1-4-alkyl,  
 (for Y = O) O; Y = R, C1-4-alkyl, alkyl, COR9; R9 = R, C1-4-alkyl,  
 alkyl, aryl, COR10; R10 = C1-4-alkyl, alkyl, aryl, heteroaryl; Y =  
 (for Z = CH3 or COR11) free electron pair or (for Z = CH3) O; R11 =  
 C1-4-alkyl, CF3, aryl and/or S (for Y = O or free electron pair) CH3 or  
 (for Y = free electron pair) COR11). A process for the prep. of 1 is  
 characterized by the acid-catalyzed splitting of the ester II (R10 =  
 C1-6-alkyl); T = R, CH3 (preferably R10 is donor) or by a hard base  
 (esp. NEt<sub>3</sub>) in aprot. (esp. MeCN), acylation, reduct. oxides, alkylation,  
 haloacetylation, esterification, etherification or reaction with Grignard or  
 alkyllithium reagents. Thus, Tubulysin A benzylamide (III) was prep.  
 from Tubulysin A via amidation of the isomeric mixed anhydride with  
 PhCH<sub>2</sub>CO<sub>2</sub>H in 78% conv. EINECS(202).

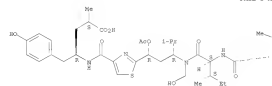
17 697236-87-3 CAPLUS  
 RI: R20 (Biogenetic preparation); IMF (Industrial manufacture); SPN (Synthetic preparation); THF (Therapeutic use); R10C (Biological study);  
 PREP (Preparation); USES (Uses)  
 Manufacture of tubulysin deriv. via acid or base cleavage of the  
 ester

side chain)  
 RI: 697236-87-3 CAPLUS  
 CH: Benzenehexamethanol acid, γ-[[12-[[1R,3R]-1-(acetoxy)-4-methyl-3-  
 [[12S,35]-3-methyl-2-[[12R]-1-methyl-2-piperidyl]oxarbonyl]amino]-1-  
 oxopentyl]1-[[1-methyl-2-oxobutyl]methyl]amino]pentyl]-4-  
 thiazolyl]oxarbonyl]amino]-4-methoxy-methyl-, (4S,7R)-  
 (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

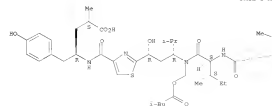


PAGE 1-B

RI: 697236-79-3 CAPLUS  
 CH: Benzenehexamethanol acid, 4-hydroxy-γ-[[12-[[1R,3R]-1-hydroxy-4-methyl-  
 3-[[12S,35]-3-methyl-2-[[12R]-1-methyl-2-piperidyl]oxarbonyl]amino]-1-  
 oxopentyl]1-[[1-methyl-2-oxobutyl]methyl]amino]pentyl]-4-  
 thiazolyl]oxarbonyl]amino]-4-methyl-, (4S,7R)-  
 (CA INDEX NAME)

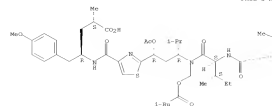
Absolute stereochemistry.

PAGE 1-A



16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

RI: IMF (Industrial manufacture); RCT (Reagent); SPN (Synthetic preparation); THF (Therapeutic use); R10C (Biological study); PREP (Preparation); RCT (Reagent or Reagent); USES (Uses)  
 Manufacture of tubulysin deriv. via acid or base cleavage of the  
 ester  
 side chain)  
 RI: 697236-76-3 CAPLUS  
 CH: Benzenehexamethanol acid, γ-[[12-[[1R,3R]-1-(acetoxy)-3-  
 [[hydroxymethyl]1-[[12R,3R]-3-methyl-2-[[12R]-3-methyl-2-  
 piperidyl]oxarbonyl]amino]-1-oxopentyl]amino]-4-methyl]pentyl]-4-  
 thiazolyl]oxarbonyl]amino]-4-hydroxy-methyl-, (4S,7R)-  
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

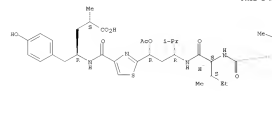
PAGE 1-B



RI: 697236-77-4P 697236-82-2P 697236-83-2P  
 697236-84-3P 697236-85-4P 697236-86-5P  
 697236-87-4P 697236-28-4P, Tubulysin A benzylamide  
 697236-29-7P, Tubulysin A propyl ester 697236-77-3P  
 697236-78-0P 697236-79-1P 697236-88-2P  
 697236-82-4P 697236-81-6P, Tubulysin A methyl ester  
 698391-62-7P, Tubulysin A propylamide  
 RI: IMF (Industrial manufacture); SPN (Synthetic preparation); THF (Therapeutic use); R10C (Biological study); PREP (Preparation); USES (Uses)  
 Manufacture of tubulysin deriv. via acid or base cleavage of the  
 ester  
 side chain)  
 RI: 697236-77-4 CAPLUS  
 CH: Benzenehexamethanol acid, γ-[[12-[[1R,3R]-1-(acetoxy)-4-methyl-2-  
 [[12S,35]-3-methyl-2-[[12R]-1-methyl-2-piperidyl]oxarbonyl]amino]-1-  
 oxopentyl]1-[[1-methyl-2-oxobutyl]methyl]amino]pentyl]-4-  
 thiazolyl]oxarbonyl]amino]-4-hydroxy-methyl-, (4S,7R)-  
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

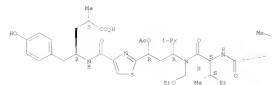
PAGE 1-B



RI 697236-82-1 CAPLUS  
 CN Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-3-[[ethoxycarbonyl]oxy]butyl]-2-methyl-2-[[[(1R)-3-methyl-2-piperidinyl]oxy]butyl]amino]-1-oxopentyl]amino]-4-methylpentyl]-4-thiazolyl]oxybutyl]amino]-4-hydroxy- $\alpha$ -methyl-, (S), (R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



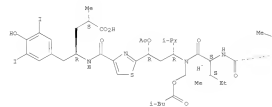
PAGE 1-B



RI 697236-83-2 CAPLUS  
 CN Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(1R,3R)-3-methyl-2-[[[(1R)-3-methyl-2-piperidinyl]oxy]butyl]amino]-1-oxopentyl]amino]-1-oxobutyl]methoxy]butyl]amino]-4-methylpentyl]-4-thiazolyl]oxybutyl]amino]-4-hydroxy- $\alpha$ -methyl-, (S), (R)- (CA INDEX NAME)

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



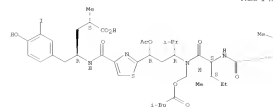
RI 697236-85-4 CAPLUS  
 CN Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(1R,3R)-3-methyl-2-[[[(1R)-3-methyl-2-piperidinyl]oxy]butyl]amino]-1-oxopentyl]amino]-1-oxobutyl]methoxy]butyl]amino]-4-thiazolyl]oxybutyl]amino]-4-hydroxy- $\alpha$ -methyl-5-nitro-, (S), (R)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 thiazolyl]oxybutyl]amino]-4-hydroxy-3-iodo- $\alpha$ -methyl-, (S), (R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

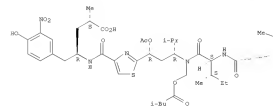


RI 697236-84-3 CAPLUS  
 CN Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(1R,3R)-3-methyl-2-[[[(1R)-3-methyl-2-piperidinyl]oxy]butyl]amino]-1-oxopentyl]amino]-1-oxobutyl]methoxy]butyl]amino]-4-thiazolyl]oxybutyl]amino]-4-hydroxy-3,5-diaido- $\alpha$ -methyl-, (S), (R)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

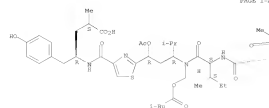


RI 697236-86-5 CAPLUS  
 CN Benzenesulfonamide acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(1R,3R)-3-methyl-2-[[[(1R)-3-methyl-2-piperidinyl]oxy]butyl]amino]-1-oxopentyl]amino]-1-oxobutyl]methoxy]butyl]amino]-4-thiazolyl]oxybutyl]amino]-4-hydroxy- $\alpha$ -methyl-, (S), (R)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



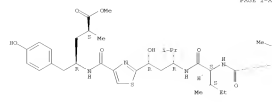
20 697216-57-6 CAPLUS

CH Benzenepentanone acid, 4-hydroxy-γ-[[2-[[[13,30]-1-hydroxy-4-methyl-3-[[[129,28]-3-methyl-2-[[[129]-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-α-methyl-, methyl ester, (4S,9S). (CA INDEX N006)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



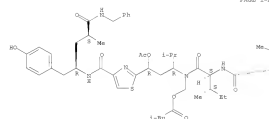
20 697751-29-4 CAPLUS

CH Butanoic acid, 3-methyl-, [[[(1R,3R)-3-(acetyloxy)-3-[4-[[[(1R,2S)-1-[[4-hydroxyphenyl]methoxy]-3-methyl-4-oxo-4-[[phenyl(methyl)amino]butyl]amino]oxycarbonyl]-3-thiazolyl]-1-(1-methyl-ethyl)propyl]-[(2S,3S)-3-methyl-2-[[[(1R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]amino]methyl ester (CA INDEX N006)

Absolute stereochemistry. Rotation (+).

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



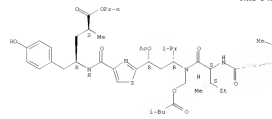
20 697752-30-7 CAPLUS

CH Benzenepentanone acid, γ-[[2-[[[13,30]-1-(acetyloxy)-4-methyl-3-[[[129,28]-3-methyl-2-[[[129]-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-α-methyl-, methyl ester, (4S,9S). (CA INDEX N006)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



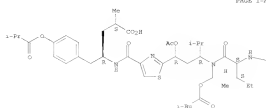
20 697762-77-9 CAPLUS

CH Benzenepentanone acid, γ-[[2-[[[13,30]-1-(acetyloxy)-4-methyl-3-[[[129,28]-3-methyl-2-[[[129]-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-α-methyl-, methyl ester, (4S,9S). (CA INDEX N006)

Absolute stereochemistry. Rotation (+).

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

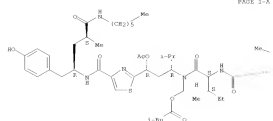


16 69762-79-0 CAPLUS  
 CN Benzenesulfonic acid, 2-methyl-2-[[[(2S,3S)-3-(acetyloxy)-3-[[4-[[[(1R,2S)-4-oxobutyl]amino]carbonyl]-2-thiazolyl]-1-methylethyl]propyl]](2S,3S)-3-methyl-2-[[[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]ethyl ester. (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

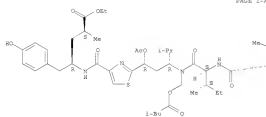


16 69762-79-1 CAPLUS  
 CN Benzenesulfonic acid, 2-methyl-2-[[[(2S,3S)-3-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](2-methyl-2-oxopropyl)amino]ethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-4-methyl-, ethyl ester, (4S,5S)-. (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

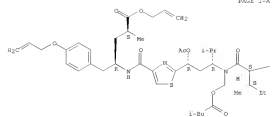


16 69762-89-2 CAPLUS  
 CN Benzenesulfonic acid, 2-methyl-2-[[[(2S,3S)-3-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](2-methyl-2-oxopropyl)amino]ethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-methyl-4-[[2-propenyl]oxy]-, 2-propenyl ester, (4S,5S)-. (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



16 69762-85-8 CAPLUS  
 CN Benzenesulfonic acid, 4-(acetyloxy)-2-[[[(2S,3S)-3-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](2-methyl-2-oxopropyl)amino]ethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-methyl-, (4S,5S)-. (CA INDEX NAME)

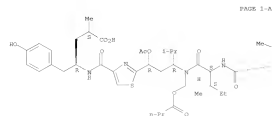
Absolute stereochemistry.



12/07/2008

10-535,630.trn

16 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



PAGE 1-B

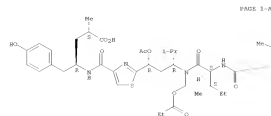


20 30534-59-7 CAPLOS

CH Benzenesulfonamide acid, 7-[[[2-[(13R,7R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl][[1-(oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy-6-methyl-, (aS,yR)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



PAGE 1-B

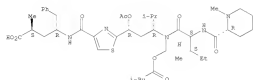


20 30935-57-7 CAPLOS

CH Benzenesulfonamide acid, 7-[[[2-[(13R,7R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl][[1-(oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methoxy-6-methyl-, (aS,yR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

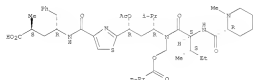
16 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



20 30935-59-8 CAPLOS

CH Benzenesulfonamide acid, 7-[[[2-[(13R,7R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl][[1-(oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-6-methyl-, (aS,yR)- (CA INDEX NAME)

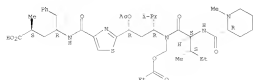
Absolute stereochemistry.



20 368970-67-1 CAPLOS

CH Benzenesulfonamide acid, 7-[[[2-[(13R,7R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl][[1-(oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-6-methyl-, (aS,yR)- (CA INDEX NAME)

Absolute stereochemistry.



17 697236-88-7p, Tubulysin A methyl ether methyl ester

Page 39

16 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

RI IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); TMO (Therapeutic use); EIOE (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

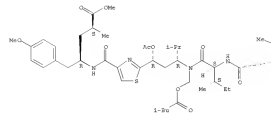
[Prep. and sample hydrolysis of manuf. of tubulysin derivs. via acid or base cleavage of the ester side chain]

20 697236-88-7 CAPLOS

CH Benzenesulfonamide acid, 7-[[[2-[(13R,7R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-1-oxopentyl][[1-(oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-methoxy-6-methyl-, methyl ester, (aS,yR)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



17 697236-89-9p

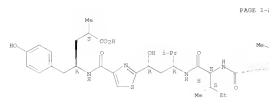
RI IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); TMO (Therapeutic use); EIOE (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

[Preparation and esterification of, with diacetyloxy manufacture of tubulysin derivs. via acid or base cleavage of the ester side chain]

20 697236-89-9 CAPLOS

16 ANWER 2 OF 7 CAPUS COPYRIGHT 2008 ACS on STN (Continued)  
 CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-3-[[[2S,3S]-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-ethanoyl]carbonyl]amino]- $\alpha$ -methyl-, (4S,7R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



PAGE 1-A



PAGE 1-B



16 ANWER 3 OF 7 CAPUS COPYRIGHT 2008 ACS on STN (Continued)  
 ACCESSION NUMBER: 2004-214844 CAPUS  
 DOCUMENT NUMBER: 140-248261  
 TITLE: The gene cluster for enzymes of tubulysin biosynthesis

INVENTOR(S):  
 PATENT ASSIGNER(S):  
 SOURCE:  
 LANGUAGE:  
 DOCUMENT TYPE:  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
DE 19241152		A1	20040918	DE 2002-10241152	20030905
WO 2004022596		A2	20040918	WO 2003-EP9780	20030903
WO 2004022596		A3	20041111		
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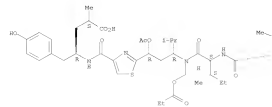


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L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

PAGE 1-A



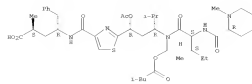
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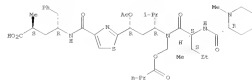
Absolute stereochemistry. Rotation (+).

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



20 309315-58-8 CAPLUS  
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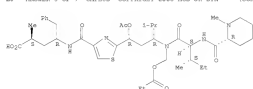
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Absolute stereochemistry.

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN  
 ACCESSION NUMBER: 2004110104  
 DOCUMENT NUMBER: 14017010  
 TITLE: Tubulysin conjugates with polymers or biomolecules, and use for the treatment of cancer  
 INVENTOR(S): Doering, Alexander; Weber, Lutz  
 PATENT ASSIGNOR(S): Morphosches Aktiengesellschaft für Kombinatorische Chemie, Germany  
 SOURCE: PCT Int. Appl., 21 pp.  
 COUNTRY: DE  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 ENTRY INFORMATION:

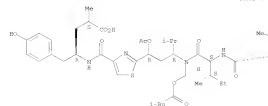
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004005326	A3	20040219		
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WI	GB, GR, HU, IL, IN, JP, KR, LV, LT, LU, MD, ME, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, ST, SV, TH, TR, TT, UA, US, VE, VC, VN, YU, ZA, ZW			
DE 10230875	A1	20040122	DE 2002-10230875	20020709
DE 10230875	A1	20040819	DE 2003-10230531	20030211
AD 2002132048	A1	20040122	AD 2003-232048	20030709
EP 1521769	A2	20050413	EP 2003-762673	20030709
FI	AT, BE, BG, BR, BY, CA, CH, CN, CO, CU, CY, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, LV, LT, LU, MD, ME, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, ST, SV, TH, TR, TT, UA, US, VE, VC, VN, YU, ZA, ZW			
US 20050249740	A1	20051120	US 2003-520791	20050108
PRIORITY APPL. INFO.			DE 2002-10230875	A 20020709
			DE 2003-10230531	A 20030211
			WO 2003-EP7415	W 20030709

OTHER SOURCE(S): MARPAT 14017010  
 AB The invention discloses tubulysin conjugates (e.g. of tubulysin A) with polymers or biomolecules (e.g. antibodies) and the use thereof in the treatment of cancers.  
 IT 205304-B6-50, Tubulysin A, conjugates with polymers or biomolecules (Pharmacological activity); TUB (Therapeutic use); B105 (Biological study); USES (Uses)  
 (Tubulysin conjugates with polymers or biomolecules, and use for treatment of cancer)  
 WI 205304-B6-5 CAPLUS  
 CH Benzenesulfonamide acid, gamma-[[12-[(1R,3R)-1-(acetyloxy)-4-methyl-3-

16 ANSWER 4 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)  
 [[125,15]-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-3-oxopentyl][1-methyl-3-oxodutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sd,yb)-  
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

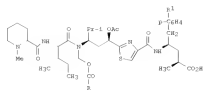


PAGE 1-B



16 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:794958 CAPLOS  
 DOCUMENT NUMBER: 135:131286  
 TITLE: Preparation of stereospecific synthetic tubulysins and intermediates  
 INVENTOR(S): Hofle, Gerhard; Leibold, Thomas; Steinmetz, Heinrich  
 PATENT ASSIGNEE(S): Gesellschaft für Biotechnologische Forschung GmbH  
 (GfB), Göttingen  
 SOURCE: Ger. Offen., 22 pp.  
 CDD: C08C  
 COORDINATOR: UNCLAS  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACQ. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10009089	A1	2001/10/31	DE 2000-10009089	2000/02/22
PRIORITY APPL. INFO.: DE 2000-10009089 2000/02/22				
OTHER SOURCE(S): CASREACT 135:331296; MARPAT 135:331296				

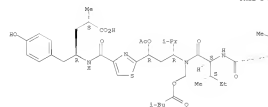


AB Methods for the stereospecific synthesis of tubulysins (I; R = CHCH<sub>3</sub>, (CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>, CHCH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub> = R, OR) and their intermediates and stereoisomers were claimed (no data). The absolute stereochemical configuration of tubulysin was determined. Steps in the preparation included reductive amination of (2S)-2-piperidine carboxylic acid and ring-opening of Boc-N-3-methyl-5-benzylpiperidino-1-one, which was prepared from Boc-Phe-OR.  
 IT 205304-86-5, Tubulysin A 205304-87-6, Tubulysin B 205304-88-7, Tubulysin C 309935-57-7, Tubulysin D 309935-58-8, Tubulysin E 309935-59-9, Tubulysin F R<sub>1</sub>, R<sub>2</sub> (Other use, unclassified); USES (Uses)  
 (Preparation of stereospecific synthetic tubulysins and intermediates)

16 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)  
 205304-86-5 CAPLOS  
 CH Benzeneperazole acid, y-[[[2-[(12R,3R)-1-(acetyloxy)-4-methyl-3-[[125,15]-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-3-oxopentyl][1-methyl-3-oxodutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sd,yb)-  
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

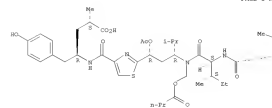


PAGE 1-B



16 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



205304-88-7 CAPLOS  
 CH Benzeneperazole acid, y-[[[2-[(12R,3R)-1-(acetyloxy)-4-methyl-3-[[125,15]-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-3-oxopentyl][1-methyl-3-oxodutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sd,yb)-  
 (CA INDEX NAME)

Absolute stereochemistry.

205304-87-6 CAPLOS  
 CH Benzeneperazole acid, y-[[[2-[(12R,3R)-1-(acetyloxy)-4-methyl-3-[[125,15]-3-methyl-2-[[[(12R)-1-methyl-2-piperidinyl]oxycarbonyl]amino]-3-oxopentyl][1-methyl-3-oxodutoxy)methyl]amino]pentyl]-4-thiazolyl]oxycarbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sd,yb)-  
 (CA INDEX NAME)

Absolute stereochemistry.

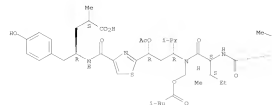


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16 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

PAGE 1-A



PAGE 1-B

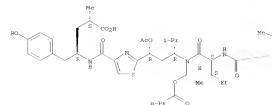


20 205304-87-6 CAPLUS  
 CH Benzenesulfonamide acid, gamma-[[12-[(1R,3R)-1-(acetoxyl)-4-methyl-3-[[12R,3S]-3-methyl-2-[[112R)-1-methyl-2-piperidinyl]oxarbonyl]amino]-1-oxopentyl][11-oxodutylmethyl]amino]pentyl]-4-thiazolyl]oxarbonyl]amino]-4-hydroxy-6-methyl-, (4S,5R)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

PAGE 1-A



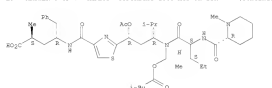
PAGE 1-B



20 205305-57-7 CAPLUS  
 CH Benzenesulfonamide acid, gamma-[[12-[(1R,3R)-1-(acetoxyl)-4-methyl-3-[[12R,3S]-3-methyl-2-[[112R)-1-methyl-2-piperidinyl]oxarbonyl]amino]-1-oxopentyl][11-oxodutylmethyl]amino]pentyl]-4-thiazolyl]oxarbonyl]amino]-4-methyl-, (4S,5R)- (CA INDEX NAME)

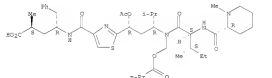
Absolute stereochemistry. Rotation (+).

16 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



20 205305-58-8 CAPLUS  
 CH Benzenesulfonamide acid, gamma-[[12-[(1R,3R)-1-(acetoxyl)-4-methyl-3-[[12R,3S]-3-methyl-2-[[112R)-1-methyl-2-piperidinyl]oxarbonyl]amino]-1-oxopentyl][11-oxodutylmethyl]amino]pentyl]-4-thiazolyl]oxarbonyl]amino]-4-methyl-, (4S,5R)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT

16 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS ON STN  
 ACCESSION NUMBER: 1999-00578 CAPLUS  
 DOCUMENT NUMBER: 158-156473  
 ORIGINAL REFERENCE NO.: 12850787a, 50795a  
 TITLES: Antimycotic and cytostatic compounds manufacture with Archaegium  
 INVENTOR(S): Reichenbach, Hans; Koele, Gerhard; Saxe, Florenz; Steinmetz, Heinrich  
 PATENT ASSIGNEE(S): Gesellschaft F&E Biotechnologische Forschung m.B.H. (GFB), Germany  
 SOURCE: Ger. Offen., 16 pp.  
 COUNTRY: GERMANY  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19638870	A1	19980326	DE 1996-19638870	19980322
WO 9813375	A1	19980402	MO 1997-EP5095	19970917
NO 974550	A	19980417	NO 1997-45550	19970917
DE 1996-19638870	A	19980326	DE 1996-19638870	19980322
MO 1997-EP5095	W	19970917	MO 1997-EP5095	19970917

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Tabulysin A [I], B [II], and C [III] are manufactured by culturing A. gephyra isolated from a compost sample. Shake-culture of A. gephyra in a medium of single-cell protein preparation (Protein), yeast extract, glucose, etc., and chromatography. Isolation of I, II, and III were shown. The phenylphenol. Characterized for these antimycotic and cytostatic compounds. were shown. Also given was inhibition of fungus, and human and animal neoplastic cell lines with these Tabulysin.  
 IT 205304-86-5P, Tabulysin A 205304-87-4P, Tabulysin B 205304-88-7P, Tabulysin C  
 PL: BPP (Biosynthetic preparation); TBP (Therapeutic use); BGL (Biological study); PEP (Preparation); USE (Use)  
 205304-86-5 CAPLUS  
 CH Benzenesulfonamide acid, gamma-[[12-[(1R,3R)-1-(acetoxyl)-4-methyl-3-

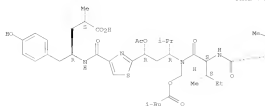
12/07/2008

10-535,630.trn

16 ANSWER 7 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)  
 [[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidyl]carbonyl]amino]-3-oxopentyl]][(1S-methyl-3-oxobutoxymethyl)amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sb,yb)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

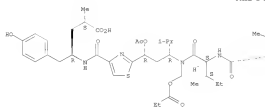


320 205304-81-6 CAPLOS  
 CH Benzenesulfonamide acid,  $\gamma$ -[[[(2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidyl]carbonyl]amino]-3-oxopentyl]][(1S-oxobutoxymethyl)amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sb,yb)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 7 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

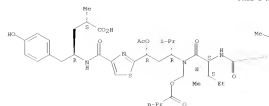


PAGE 1-B



16 ANSWER 7 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



320 205304-80-7 CAPLOS  
 CH Benzenesulfonamide acid,  $\gamma$ -[[[(2-[(1R,2R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidyl]carbonyl]amino]-3-oxopentyl]][(1S-oxopropyl)methyl]amino]pentyl)-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, (Sb,yb)- (CA INDEX NAME)

Absolute stereochemistry.

12/07/2008

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